

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,852,439 B2  
DATED : February 8, 2005  
INVENTOR(S) : Frank, David G. et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 2,

Line 19, the paragraph beginning "For the coolant, this commonly flows across the back of" has been deleted.

Line 56, the first comma ",", has been changed to a period -- . --.

Column 3,

Line 6, the word "or" has been changed to -- for --.

Column 5,

Line 54, the word "polysilioxane" has been changed to -- polysiloxane --.

Line 55, the equation "--CH==CH2" has been changed to -- -CH=CH2 --.

Column 7,

Line 48, the colon ":" has been changed to a semi-colon -- ; --.

Column 8,

Line 7, the words "FIGS. 1b-e" have been changed to -- FIGS. 1b-1e --.

Line 53, the period "." has been changed to a comma -- , --.

Column 9,

Line 59, the comma "," has been deleted.

Column 10,

Line 14, the word -- the -- has been inserted after "of".

Column 11,

Line 10, the word -- that -- has been inserted after "materials".

Line 46, the word -- is -- has been inserted before "also".

Column 12,

Line 25, the word "parts" has been changed to -- ports --.

Line 28, the word "riot" has been changed to -- not --.

Line 37, the word -- as -- has been inserted before "necessary".

Line 41, the word "are" has been changed to -- is --.

Line 67, the period "." has been deleted.

Column 13,

Line 10, the period "." has been changed to a comma -- , --.

Line 11, a period -- . -- has been inserted after "MEA".

Line 35, the word -- a -- has been inserted before "seal".

Line 52, the number "162" has been changed to -- 152 --.

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Column 13 (cont'd),

Line 56, the period "." has been changed to a comma -- , --.

Column 14,

Line 15, the word "air" has been deleted.

Column 15,

Line 22, the word "front" has been deleted, and the word "cathode" be changed to -- anode --.

Line 24, the word "anode" has been changed to -- cathode --.

Column 17,

Line 28, a period -- . -- has been inserted at the end of the sentence, after "detached".

Column 18,

Line 5, the letter "s" has been changed to the word -- is --.

Line 6, the word "MEUs" has been changed to -- MEU's --.

Line 12, the word "end" has been changed to -- and --.

Line 14, the word "MFU" has been changed to -- MEU --.

Line 42, a period -- . -- has been inserted after "uniform".

Lines 44-46, the words "lead to distortions in flow rates of the seal material on the two sides of the MEA, which will" have been deleted.

Line 50, the words "1i-1e" have been changed to -- 1b-1e --.

Column 19,

Line 33, a period -- . -- be inserted after "31e".

Column 20,

Line 5, the word "from" has been changed to -- form --.

Column 21,

Line 25, the words "organo siloxane" have become one word -- organosiloxane --.

Line 46, a period -- . -- has been inserted after "ingredient".

Line 67, the word "carbons" has been changed to -- carbon --.

Column 22,

Line 49, the word "trichiorosilane" has been changed to -- trichlorosilane --.

Column 23,

Line 20, the word "methylotrifluoropropyl" has been changed to -- methyltrifluoropropyl --.

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Column 23 (cont'd),

Line 28, the words "platinum-group" have been changed to -- platinum group --.

Line 37, the word "part" has been changed to -- parts --.

Line 56, brackets have been inserted around the letter "F".

Column 24,

Line 3, the word "sufficient" has been deleted.

Line 5, the word "As" has been changed to -- as --.

Line 31, the word "metric" has been changed to -- meric -- and a comma -- , -- be inserted after "material".

Line 55, the first instance of the word "an" has been changed to -- a --.

Column 25,

Lines 13 and 36, the word "dimethylpolyiloxane" has been changed to -- dimethylpolysiloxane --.

Line 23, the degrees symbol -- ° -- has been inserted after "23".

Column 26,

Line 32, a comma -- , -- has been inserted after "GDM".

Line 46, the word "Into" has been changed to -- into --.

Column 29,

Line 1, the word "polydimethylsiloxaxane" has been changed to -- polydimethylsiloxane --.

Line 2, the word "methyltrifluoropropyl" has been changed to -- methyltrifluoropropyl --.

Line 26, the word "Trifluoropropylmethyl" has been changed to -- Trifluoropropylmethyl --.

Line 40, the word -- and -- has been added before the word "were".

Line 44, the word "dimethylvinylsiloxyl" has been changed to -- dimethylsiloxyl --.

Line 52, the words "or composition" have been deleted.

Line 54, the number "22" has been changed to -- 225 --.

Column 30,

Line 27, the word "Alter" has been changed to -- After --.

Column 31,

Line 25, the number "38" has been changed to -- 3.8 --.

Line 27, the word "arid" has been changed to -- and --.

Column 32,

Line 56, the word "elastometric" has been changed to -- elastomeric --.

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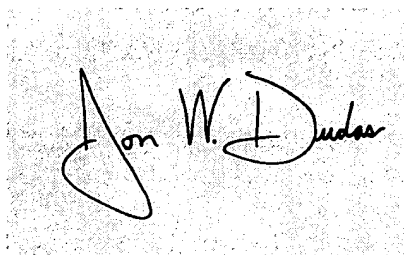
Column 34,

Line 13, the word "aperture" has been changed to -- apertures --.

Line 40, the words "at least one groove" now begins on a new line.

Signed and Sealed this

Twenty-ninth Day of November, 2005

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped "J" and "D".

JON W. DUDAS

*Director of the United States Patent and Trademark Office*